

Solutions of electromagnetic and gravitational fields under certain conditions

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Abstract: Solutions of electromagnetic and gravitational fields under certain conditions.

Key words: Electromagnetic field, Gravitational field, Thermodynamics.

$$\left\{ \begin{array}{l}
 1. \frac{(e_o)}{(4\pi)(\epsilon_0)(r_e)} = \frac{(h)}{(4\pi)(a_0)^2 (4\pi)(a_0)^2}, \\
 2. \frac{(e_o)}{(4\pi)(\epsilon_0)(a_0)} = \frac{(G_N)}{(4\pi)(a_0)^2 (2\pi)(R_\infty)}, \\
 3. \frac{(e_o)}{(4\pi)(\epsilon_0)(a_0)} = \frac{(m_{atom})(G_N)}{(4\pi)(a_0)^2 (2\pi)^2 (a_0)^2}, \\
 4. \frac{(e_o)}{(4\pi)(\epsilon_0)(a_0)} = \frac{(m_e)(G_N)(c)^2}{(h)(c)}, \\
 5. \frac{(e_o)}{(4\pi)(\epsilon_0)(a_0)} = \frac{(c)}{(R_\infty)}, \\
 6. \left[\frac{(e_o)}{(4\pi)(\epsilon_0)} \right]^2 = \frac{1}{2} (m_e)[\alpha_o]^2 (c)^2, \\
 7. \left[\frac{(e_o)}{(4\pi)(\epsilon_0)} \right]^2 = \frac{(m_{atom})(c)^2}{(2\pi)(R_\infty)}, \\
 8. \frac{(e_o)^2}{(4\pi)(\epsilon_0)(a_0)^2} = \frac{(m_e)[\alpha_o]^2 (c)^2}{(a_0)}, \\
 9. \frac{(e_o)^2}{(4\pi)(\epsilon_0)(a_0)^2} = (2\pi)(R_\infty)(e_o)(c)^2 (m_e)(c)^2, \\
 10. \left[\frac{(e_o)}{(4\pi)(\epsilon_0)(a_0)} \right]^2 = \frac{(m_{atom})}{(2\pi)^4 (r_a)(r_e)(R_\infty)(a_0)}, \\
 11. \left[\frac{(e_o)}{(4\pi)(\epsilon_0)(a_0)} \right]^2 = \frac{(m_e)(m_{atom})(R_\infty)}{(4\pi)(a_0)^2 (2\pi)^2 (a_0)^2 (2\pi)(r_a)}, \\
 12. \left[\frac{(e_o)}{(4\pi)(\epsilon_0)(2\pi)(a_0)} \right]^3 = \frac{(m_{atom})(c)^2 (m_e)(c)^2 (2\pi)(r_a)(c)^2 (2\pi)(r_e)(c)^2}{(2\pi)^2 (a_0)^2}.
 \end{array} \right.$$

$$\left\{ \begin{array}{l}
 1. \frac{(m_{atom})(G_N)}{(a_0)^2} = (2\pi)^3 (e_o), 2. \frac{(m_{atom})(G_N)(c)^2}{(r_a)^2} = \frac{(h)}{(4\pi)(r_a)^2 (2\pi)(r_a)}, \\
 3. \frac{(m_e)(G_N)}{(2\pi)(r_a)} = \frac{(h)}{(R_\infty)(2\pi)(r_a)}, 4. \frac{(m_e)(G_N)}{(k_B)} = (m_e)[\alpha_o]^2 (c)^2, \\
 5. \left[\frac{(m_{atom})(G_N)}{(4\pi)(a_0)^2} \right]^2 = (2\pi)^2 (m_{atom})^2 (c)^2, 6. \frac{(m_{atom})(G_N)}{(4\pi)(a_0)^2} * \frac{(m_e)(G_N)}{(4\pi)(a_0)^2} * (c)^2 = \frac{(2\pi)(h)(2\pi)(a_0)}{(a_0)^2}, \\
 7. \frac{(e_o)}{(4\pi)(\epsilon_0)} * \frac{(m_e)(G_N)}{(4\pi)} * (c)^2 = (h), 8. \left[\frac{1}{(R_\infty)^2} \right]^2 * \frac{(8\pi)(R_\infty)(m_{atom})}{(c)^2} = \left[\frac{(4\pi)}{(c)^2} \right]^4, \\
 9. (k_{BG})(k_B) = \frac{(m_e)^2 (G_N)(c)^2}{(a_0)^2} / [(e_o)(c)], 10. (k_{BG})(k_B) = \frac{(m_e)^2 (R_\infty)^2 (G_N)(c)^2}{(e_o)}, \\
 11. \left[\frac{1}{(R_\infty)^2} \right]^2 * \frac{(8\pi)(G_N)}{(c)^3} = (4\pi) * \left[\frac{(4\pi)}{(c)^2} \right]^4, \\
 12. \left[\frac{1}{(4\pi)(\epsilon_0)} * (4\pi) * \frac{1}{(c)} * (2) * \frac{1}{(c)^2} \right]^2 * \left[(G_N) * (4\pi) * \frac{1}{(c)} * (2) * \frac{1}{(c)^2} \right] = (4\pi) * \left[\frac{(4\pi)}{(c)^2} \right]^4.
 \end{array} \right.$$

Reference: none.